

Correction to “Dust and sea salt variability in central East Antarctica (Dome C) over the last 45 kyrs and its implications for southern high-latitude climate” by R. Röthlisberger et al.

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INDEX TERMS: 3344 Meteorology and Atmospheric Dynamics: Paleoclimatology; 0368 Atmospheric Composition and Structure: Troposphere—constituent transport and chemistry; 1620 Global Change: Climate dynamics (3309); 9310 Information Related to Geographic Region: Antarctica; 9900 Corrections. **Citation:** Röthlisberger, R., R. Mulvaney, E. W. Wolff, M. A. Hutterli, M. Bigler, S. Sommer, and J. Jouzel, Correction to “Dust and sea salt variability in central East Antarctica (Dome C) over the last 45 kyrs and its implications for southern high-latitude climate” by R. Röthlisberger et al., *Geophys. Res. Lett.*, 30(5), 1216, doi:10.1029/2003GL016936, 2003.

[1] In the paper “Dust and sea salt variability in central East Antarctica (Dome C) over the last 45 kyrs and its implications for southern high-latitude climate” by Regine Röthlisberger, Robert Mulvaney, Eric W. Wolff, Manuel A. Hutterli, Matthias Bigler, Stefan Sommer, and Jean Jouzel [*Geophys. Res. Lett.*, 29(20), 1963, doi:10.1029/2002GL015186, 2002], an incorrect version of Figure 1 was published. The correct Figure 1 and its caption appear below.

[2] The following reference appeared incorrectly. The correct version follows: Delmonte, B., J. R. Petit, and V. Maggi, Glacial to Holocene implications of the new 27,000-year dust record from the EPICA Dome C (East Antarctica) ice core, *Clim. Dyn.*, 18(8), 647–660, doi: 10.1007/s00382-001-0193-9, 2002. Consequently, the correct citations for this reference appear below.

[3] In paragraph [7], the last sentence should read as follows: The changes seen in nss-Ca^{2+} concentrations agree with insoluble dust measurements [Delmonte *et al.*, 2002], with particle number and mass concentration changing by a factor of 50 from the LGM to the Holocene and a factor of 2 from the ACR to the Holocene.

[4] In paragraph [9], the fifth sentence should read as follows: These results are supported by dust particle measurements [Delmonte *et al.*, 2002], which showed a slightly smaller particle mode and a smaller geometric standard deviation of the particle size distribution in the glacial than in the Holocene, indicative of a tendency to longer transport paths and less meridional transport. The sixth sentence should read as follows: On the other hand, based on GCM simulations Krinner and Genthon [2002] concluded that the dust transport from Patagonia to Dome C was faster during the LGM, in contrast to the studies by Lunt and Valdes [2001] and Delmonte *et al.* [2002].

[5] The following acknowledgment was incorrectly published. In paragraph [15], the first sentence should read as follows: **Acknowledgments.** This work is contribution No. 49 to the “European Project for Ice Coring in Antarctica” (EPICA), a joint ESF (European Science Foundation)/EC scientific programme, funded by the European Commission and national contributions from Belgium, Denmark, France, Germany, Italy, the Netherlands, Norway, Sweden, Switzerland, and the United Kingdom.

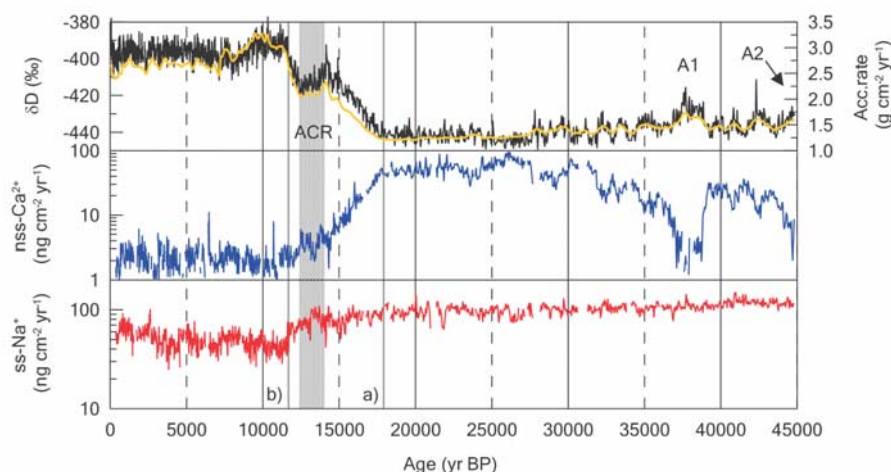


Figure 1. Fluxes of ss-Na^+ and nss-Ca^{2+} , as well as the δD and the accumulation rate (yellow line, [Schwander *et al.*, 2001]) from the top 780 m of the EPICA Dome C deep ice core at 55 cm resolution. The vertical grey lines refer to the beginning (a) and the end (b) of the Transition, the shaded area corresponds to the Antarctic Cold Reversal (ACR).